

# **Living Atlas 1 Sprint 6 - Report**

**Long, Joshua**  
**Kolb, Mitchell, William**  
**Svetlik, Sierra Amelia**

## **Introduction**

During the sprint from week 10 to week 15, the focus was primarily on identifying and resolving various bugs in the system, ensuring stability and improved user experience. Concurrently, there was a significant emphasis on finalizing the project documentation, which is essential for providing a clear, comprehensive understanding of the system's functionalities and workflows. Additionally, the creation of a presentation poster was undertaken.

## **Retrospection of Last Sprint**

### **Long, Joshua**

In the previous sprint 5, the focus was on three key areas: creating tests, finalizing the file system, and completing the deployment process. The creation of tests was a critical step in ensuring the reliability and effectiveness of the system. This involved developing various test scenarios to validate the functionality and performance under different conditions. Finalizing the file system was another significant accomplishment, involving the establishment of a robust and scalable storage solution, capable of handling various types of data efficiently. Lastly, the sprint saw the successful completion of the deployment process, which involved configuring and launching the system in a live environment. This step was crucial for making the system accessible to users and testing its real-world applicability and performance.

### **Kolb, Mitchell, William**

Looking back at the last sprint I was tasked with remaking the endpoints so instead of all my code being in one file it is now separated and modular. I also am supposed to fix the tag system and create test cases. Finally I am supposed to deploy the backend publicly so the frontend can use it once it is deployed. All of these tasks are required to be finished for the project to be finished.

### **Svetlik, Sierra Amelia**

During the fifth sprint I was assigned the task of offering support to my team. I didn't have any specific duties. The database was ready to go, so I was available to help my team however they may have needed it.

## **Result of Sprint - 5 Planning**

### **Long, Joshua**

Sprint 6 was centered on three principal objectives: finalizing documentation, fixing bugs, and creating a poster for presentation. Specifically for the frontend, the goal was to develop a bug report sheet for the sponsor and address the identified bugs accordingly.

#### **Kolb, Mitchell, William**

This sprint I finalized my code and made it more presentable and finished the last set of features that are needed to be implemented so that requirements are met for this project. Along with that the documentation and posters were completed which my team and I completed.

#### **Svetlik, Sierra Amelia**

This sprint I planned for helping out where I could. Since the database is complete, I will continue helping out my teammates however I can.

### **Sprint Task Assignment**

#### **Long, Joshua**

1. Finalizing the project report
2. Create the poster
3. FrontEnd - fix bugs
4. FrontEnd - enable registration

For this sprint, I will have four sprint tasks. Finalizing the project report, Create the poster, fix bugs, and enabling user registration.

#### **Kolb, Mitchell, William**

1. Backend - Transition from local file storage to Google Cloud storage
2. Backend - Clean up code/ fix bugs
3. Backend - Deploy all features on Clients business accounts
4. Team - Poster assistance

For this sprint, I will have four sprint tasks. Move my local file endpoints to use google storage, fix bugs as they come in, switch to using clients business accounts for deployment, and help assist with the final assignments for the presentations in 423.

#### **Svetlik, Sierra Amelia**

1. Offer support

For this sprint, I have 1 task. To help out my team in any way I can.

## **Sprint Task(s) Details**

**Long, Joshua**

- 1. Finalizing the Project Report**

This task involves thoroughly reviewing and completing the project report. It's focused on ensuring that the report accurately reflects the project's progress, outcomes, and key learning points.

- 2. Create the Poster**

The objective here is to design and create a poster for the project presentation. This poster should effectively summarize the project, highlighting its main features, benefits, and achievements.

- 3. FrontEnd - Fix Bugs**

This task is dedicated to identifying, diagnosing, and resolving any existing bugs or bugs reported by the sponsor in the bug report document.

- 4. FrontEnd - Enable Registration**

The focus here is to develop and integrate a user registration feature into the frontend. This involves creating a user-friendly registration interface, ensuring secure data handling, and integrating this feature with the backend systems to maintain user data and authentication processes.

**Kolb, Mitchell, William**

- 1. Backend - Transition from local file storage to Google Cloud storage**

To satisfy this task I will switch my upload and download to use google storage instead of the localhost file system. This allows us to fully deploy the website and not have any equipment locally needed to run it.

- 2. Backend - Clean up code/ fix bugs**

To satisfy this task I will fix bugs as they are found. We have a bug report form that the clients and us report bugs to that I check every so often to fix my code.

- 3. Backend - Deploy all features on Clients business accounts**

To satisfy this task I will switch from using my personal accounts to deploy the website to using the clients email and accounts so that after this project concludes they will retain full control over it and not have to ask us to make changes.

#### **4. Backend - Poster assistance**

To satisfy this task I will help my team complete the poster that we will use for our presentation in the EME hallways.

### **Svetlik, Sierra Amelia**

#### **1. Offer support**

To do this, I will reach out to my teammates and pick up any task they need help with in order to allow the application to be completed on time and in the best shape possible. For example, adding (real) data to the database to represent what our app does.

## **Minutes of Meeting**

### **Meeting 1**

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Meeting Date and Time: Monday August 21st 5pm

Attendees: Mitchell, Josh, Sierra, Prof. Subu, Jan Boll

Agenda:

- Reintroduction of the project since the last time our team and the client have met.
- Go over goals that we have this semester and our initial plans on how we are going to finish the project

Meeting Notes:

- This meeting was intended to be a reintroduction to the work that the living atlas database team worked on last semester. This meeting was around 20 minutes and the three of us started by going through the presentation that we made at the end of sprint 3 to wrap up the project at the time. After we went through the presentation we had a live showcase of the website in its current state. Josh displayed his frontend, Mitchell displayed his backend and database. After this

we all talked about our potential goals and where we see the project going this fall.

Action Items/Postponed-Items:

- Action Items:
  - The entire team will plan on finishing the functionality of the website (ETA end of sprint 1)
  - Josh will begin implementing the frontend with the living atlas map team (ETA end of sprint 1)
- Postponed Items:
  - NA

Miscellaneous:

- Jan Boll took notes and screenshots during the meeting with the intention of sending them over to Julie Padowski so she can be caught up with how the project is going when we meet with her next time.
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## Meeting 2

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Meeting Date and Time: Thursday September 14th 3:30pm

Attendees: Mitchell, Josh, Sierra, Jan Boll, Julie Padowski

Agenda:

- Show the client the new file server functionality that allows files to be attached to cards.
- Show the client the log in/register pages
- Show off the CEREO data that we entered into the database to replace the old placeholder data we had in before. Get approval of how it looks in the cards.
- Ask the client about MFA with the login pages
- Ask the client about the look of the website to see if they have preferences on adding a color scheme or department logo.

Meeting Notes:

- This meeting was very familiar in style to how the team-client meetings went last semester. This meeting lasted about 40 minutes in total. We started off with introductions as this was the first time Julie has met with our team this semester, and then went into a showcase of the new work that our team completed since the last meeting. Josh showed off the download file button that is attached to each card and the log in/register pages that he made. Mitchell talked about the specifics of saving files to the backend. Sierra talked about the possibility of

adding multi-factor authentication with the user accounts. The clients said that this feature is something that we can focus on adding in later. After the three of us finished talking about each of our sections we opened the meeting up to questions. Julie and Jan asked some questions about the format of the cards and linking to websites along with the “download file” button. Our team asked the client if the presentation of the website is to their liking and if they wanted to add any details regarding colors or logos and they said that a logo would look good in a spot along the top left of the header bar at the top of the web page. At the end of the meeting we talked about the timeline of the project and what we expect to show them at the next meeting. We expect to show them the website with the map included and functional from the other team because that is what they have been working on.

Action Items/Postponed-Items:

- Action Items:
  - The entire team will work on the tag filter system (ETA code review Sep 22nd)
  - The front and backend will work on logging in and authenticating users (ETA code review Sep 22nd)
- Postponed Items:
  - Deployment options and prices will be talked about later as we need more information regarding prices
  - A version of the website with the map and cards together will be shown in the next meeting because as of the current moment it is not ready.

Miscellaneous:

- We talked about the possibility of moving the weeks that we have the meetings with the client to the other set of Thursdays every other week. This would mean that we could meet with the client the following week. This could mean that in the next meeting there might be less to talk about, because until the code review with our professor we don't know how far along the other team is with integrating the map into the left side of the living atlas home page. We will get more details as the next week comes around.
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## Meeting 3

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Meeting Date and Time: Thursday September 21th 3:30pm

Attendees: Mitchell, Josh, Sierra, Jan Boll, Julie Padowski

Agenda:

- Show the client the new filter feature
- Ask questions about tags

#### Meeting Notes:

- During the recent meeting, several key updates were shared by team members. Josh presented the newly developed filter functionality, providing an in-depth look into its capabilities. Following Josh, Sierra delved into discussions regarding the potential tags, offering insights into their application and relevance. To conclude, Mitchell showed the additional filter endpoints he has developed, underscoring their significance and utility for the project. Julie and Jan asked some questions about integrating the projects with the other team. Also, we discuss the possibility of creating an Admin page.

#### Action Items/Postponed-Items:

- Action Items:
  - Both the Frontend and Backend must finish up the filter functionality
  - Complete the integration with the other team
- Postponed Items:
  - N/A

#### Miscellaneous:

- N/A
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## Meeting 4

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Meeting Date and Time: Thursday October 5, 2023, 3:30pm

Attendees: Wyatt Croucher, Joshua Long, Julie Padowski, Jan Boll, Phearak Both Bunna, Flavio Alvarez Penate, Mitchell Kolb, Sierra Svetlik

#### Agenda:

- Discuss filtering tags; ensure that our prototype has the proper filtering buttons (Wyatt)
- Finalize map marker data format (Flavio)
- Do a quick demo of the project

- Discuss how NHD streams data provided should be displayed and what should be in the popup after clicking (Both)

#### Meeting Notes:

- Gave a demo of the current application with the current features that have been implemented.
- Filters: River, Watershed, Communities, Landscapes, Organisms, Stories, People, Mapped Data
- Buttons for data (spatial or non-spatial data)
- Have options for people to input optional data tags on top of the required ones
- Input latitude and longitude along with brief description or link associated with some of the data

#### Action Items/Postponed-Items:

- Action items:
  - Finalize filter buttons as soon as possible; waiting for response from client for finalized list.
  - Display the first 5 or 6 properties in the popup for the urban area
  - Cards need to update as the view of the map changes (on the back-burner)

#### Miscellaneous

NA

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## Meeting 5

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Meeting Date and Time: Thursday October 19th 3:30pm

Attendees: Mitchell, Josh, Sierra, Flavio, Both, Wyatt, Jan Boll, Julie Padowski

#### Agenda:

- Ask whether clients want color coded map markers to go along with the cards
- Ask about funding for elephant sql plans so both teams can have connections at once
- Do a quick demo of the project
- Ask questions about filters and color
- Talk about issues with filtering by view



### Meeting Notes:

- Gave a demo of the current application with the current features that have been implemented. Features include card color-coding and filtering of major tags. Also discussed pricing of database services, an email will be sent out to the client and group members (as well as Subu) after the meeting to figure out which option suits the clients needs.

### Action Items/Postponed-Items:

- Action items:
  - Determine pricing plan for the database services and work with the client to start a short trial of those services.
  - Continue to implement the camera view boundary functionality so that map only returns cards relevant to the map space.
  - Add color coding to the markers as well as the cards.

### Miscellaneous

- We mentioned the possibility of payment for an expanded elephantSQL service. Details will be given at a later date whether we actually need to pay for that.
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## **Meeting 6**

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Meeting Date and Time: Monday November 6th 3:00pm

Attendees: Mitchell, Josh, Sierra, Flavio, Both, Wyatt, Jan Boll, Julie Padowski

### Agenda:

- Demo the application to the clients
- Provide them with a link to the hosted app on netlify
- Record feedback provided
- Ask for a logo for the site

### Meeting Notes:

- The clients are satisfied with card and marker integration
- We've been provided with a logo for the application



- Jan Boll plans to demo some of the site to his class tomorrow. Will report any bugs and feedback once our form is created and sent to them.

#### Action Items/Postponed-Items:

- Create a google forms where the clients can submit bugs to after using the app
- Finalize thoughts on user creation.
  - Specifically the idea of an existing user being able to add new users (i.e. in order to register you need to know someone that already has an account)

#### Miscellaneous

- Clients would like to receive some sort of access to the services we use to host our application (Render, Netlify, etc.)
  - They will be able to pay for services required (up to a certain limit), since they've been provided with a budget for it.

## Meeting 7

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Meeting Date and Time: Thursday November 16th @ 3:15pm

Attendees: Mitchell, Josh, Sierra, Flavio, Wyatt, Jan Boll, Julie Padowski

#### Agenda:

- Demo the application to the clients
- Provide them with an updated link to the hosted app on netlify
- Get feedback on current bug fixes and new bugs they may have found

#### Meeting Notes:

- Found bug where users are logged out after submitting a card; cards are not showing up after the user submits a card

- Clients provided us with an account to connect all of our services to.
- Bugs submitted by Jan have been fixed.

#### Action Items/Postponed-Items:

- Fix bug involving log-in and upload; users are being logged out after uploading a card
- Use the gmail account provided by the client to link all services to in order to pass everything on to the client after this semester.
- Come up with a set of instructions on how clients would be passing over the services we used to the next team working on this project.

#### Miscellaneous

- Jan would like to know the time we are presenting on the 7th to see if he can attend.

## Meeting 8

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Meeting Date and Time: Thursday November 30th @ 3:15pm

Attendees: Mitchell, Josh, Sierra, Flavio, Wyatt, Both, Jan Boll, Julie Padowski

#### Agenda:

- Get the final demo with the client scheduled
- Mapbox API Questions

#### Meeting Notes:

- Final meeting demo scheduled: Tuesday, Dec. 5 @ 4pm
- Mapbox API name on the account: Cereo Atlas (First/Last)

Action Items/Postponed-Items:

- Check upload functionality after the client has had a chance to use it.

Miscellaneous

- Jan would like to know the time we are presenting on the 7th to see if he can attend. Email Jan and Julie when we know more details